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MILWAUKEE
BUREAU OF ECONOMY AND EFFICIENCY

BULLETIN NO. 2

ALARM TELEGRAPH SYSTEMS

MILWAUKEE, WIS.
JUNE, 1911

MILWAUKEE

BUREAU OF ECONOMY AND EFFICIENCY

John R. Commons, Director
B. M. Rastall, Associate Director

CONSULTING EXPERTS

F. E. Turneure, Louis E. Reber, H. L. Russell,
S. W. Gilman, Peter White.

BULLETINS ISSUED

Plan and Methods

Garnishment of Wages—*Published by Wisconsin Bureau of Labor*
Workmen's Accidents—*Published by Wis. Committee on Industrial Insurance*
Women's Wages—*Published by Wisconsin Consumers' League*
Alarm Telegraph Systems

IN PRESS

House Drain and Plumbing Inspections
The Refuse Incinerator
Housing Conditions—*Published by Wisconsin Bureau of Labor*
Free Legal Aid

STUDIES IN PROGRESS

City Administrative Organization
Organization of the Public Works Dept.
Water Works Efficiency
Water Rates
Street Construction
Street Cleaning
Construction and Operation of Sewers
Management of Public Structures
Ash and Garbage Collections
Purchase Methods
Public Recreation and Amusements

Special Assessments
Licenses and Permits
Health and Sanitation
Milk Supply
Sanitary Inspection
Communicable Diseases
Infant Mortality
Meat and Foods
Municipal Reference Library
Municipal Education
Free Employment Agencies

**MILWAUKEE
BUREAU OF ECONOMY AND EFFICIENCY**

BULLETIN NO. 2

**Proposed Consolidation of Fire and
Police Alarm Telegraph Systems**

BY

J. E. TRELEVEN

PREPARED UNDER THE DIRECTION OF

B. M. RASTALL

MILWAUKEE, WIS.

JUNE, 1911

LETTER OF TRANSMISSAL

The Honorable Emil Seidel, Mayor,
The Finance Committee, and the
Committees on Fire and Police, of the Common Council.
Gentlemen:

We submit herewith the report of the Bureau of Economy and Efficiency on the proposed consolidation of the fire and police alarm systems, made orally to the Committees on Fire and Police on March 25, 1911. This report contains three principal recommendations.

1. That construction and maintenance work only be combined.
2. That the activities of the division thus created be carefully related to the work of the fire and police departments, and to any plans for further electrical work of the city as they may develop.
3. That in the reorganization the adjustments be made that will secure the best results in economy and efficiency.

It is the understanding of the Bureau that the pending ordinance is to be in substantial agreement with the first recommendation, leaving the second open entirely for future consideration. If the consolidation be effected, the necessary steps should be immediately taken to put into effect the organization plan submitted with the third recommendation.

While the gain in efficiency will be the most important result in both the consolidation of construction work and the revision of organization, considerable savings will also be effected. In construction work, upon plans submitted by Mr. Kleinsteuber, Assistant Superintendent Fire Alarm Telegraph, the saving, less added cost of administration, may be conservatively estimated at \$6500 for the first twelve months. The adoption of the reorganization plan submitted will secure an additional saving of \$3500 during the same period.

Respectfully submitted,

(Signed) J. R. Commons, Director.

(Signed) B. M. Rastall, Associate Director.

PROPOSED CONSOLIDATION OF
FIRE AND POLICE ALARM TELEGRAPH
SYSTEMS.

SCOPE OF INVESTIGATION.

The special study of the Fire and Police Alarm Systems made to determine the advisability of consolidating the systems has included a detailed examination of the present organization of the two systems, an analysis of the testimony taken in the hearing before His Honor, Mayor Seidel, to determine the feasibility of consolidation, an investigation of plans of organization adopted in various cities as shown in their published reports, and a personal inspection of the systems now operated in Chicago, St. Paul and Minneapolis. As a result of this study, the following conclusions on the advisability and form of consolidation have been reached.

A. ADVISABILITY OF CONSOLIDATION.

Consolidation is desirable. The conclusion is based on the following facts:

1. Construction costs will be lessened under a single system. Mr. Oscar Kleinsteuber, at present Assistant Superintendent Fire Alarm Telegraph, has submitted figures showing the saving in construction costs under a consolidated system. Although these figures have not been checked in detail they seem conservative.

There is no question but that there will be a saving by carrying both systems in one conduit and one cable. In the combined systems there will be less investment and a lower maintenance cost. The situation regarding the cost of construction is different in Milwaukee than in most other cities. Here the city constructs and maintains its own conduits and strings its own cables. In most other cities conduits and cables are obtained from local telephone companies, construction by the city being limited to aerial lines in outlying districts. In these places, naturally, the advantages of consolidation are not so apparent as in Milwaukee.

In no one of the three cities visited in gathering data for the report was there found sentiment favoring construction of separate conduits and the drawing of separate cables for the two systems. In Chicago and Minneapolis, where the construction and maintenance of lines are under a single head and the systems are combined in all respects excepting operation of switchboards, all officials interviewed agreed that separate construction and maintenance of the systems is unnecessarily expensive to the city. The Fire and Police alarm systems in St. Paul are entirely independent. Although the head of each system stated that he believed in the independent management of the systems, each said that if the city were to give up its practice of using telephone conduits and cables to carry its lines and should undertake to construct its own systems, it would be needless duplication to lay separate conduits and draw separate cables for the two departments.

2. The maintenance of the combined system will be more economical than the present arrangement. Fewer men will be required to care for the lines than at present; there will be a reduction in the cost of maintaining horses; and, if the department be properly organized, there will be a decrease in repair costs.

3. The consolidation will not impair the efficiency of operation of the system. While little or no reduction in expense of operation may be looked for, if proper relations be-

tween the operating forces of the two switchboards and the chiefs of the respective departments are preserved (see under II blow) the operation of the systems will be at least as efficient as at present.

B. FORM OF CONSOLIDATION.

Owing to the intimate relation that must always exist between the Police and Fire Departments and their signal systems, to the peculiarity of the pension laws affecting these departments, to the possible future development of electrical work by the city, and to the laws affecting the organization of the Police and Fire Departments, the relation between the proposed department and the existing departments of the city government and the legal status should be carefully determined before the systems are consolidated. Certain changes in the laws will probably be necessary before reorganization under the consolidation plan can be effected. Two alternative plans are presented herewith either of which will satisfactorily establish the interrelation of the several departments involved.

I. If it be the intention to erect ultimately this department into a department of electricity, it seems clear that the work of the department should be separated from the regular work of the Fire and Police Departments.

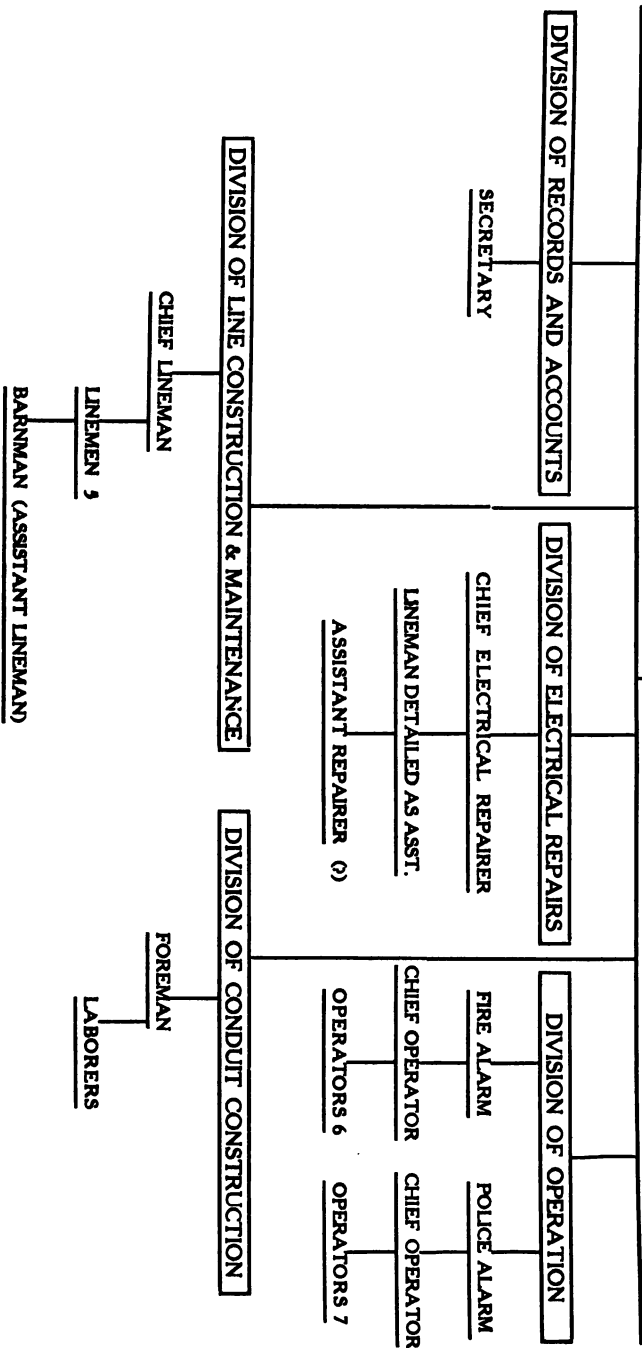
The creation of a Department of Electricity should not be undertaken without a thorough study to determine whether or not electrical work of so varied a character as supervision of electric lighting systems, supervision of telephone and signal systems, and electrical inspection can be best handled in a single department. If it be determined that the future policy shall be the creation of such a department, or if it be the plan to make the Fire and Police Alarm Telegraph an independent department, the department established at this time should be created with the idea that it is to be a construction rather than an operation department, and its relation to the other city departments determined accordingly.

The natural place for construction work of all sorts seems to be the Department of Public Works, and therefore the Division of Electricity, having charge of all electrical construction and maintenance in the city, would naturally be a branch of the Department of Public Works. If this plan were followed or even if the department were made independent, the Fire and Police Departments, which naturally have the greatest interest in securing the efficient operation of their signal systems, should retain control as at present over the operation of the system by leaving the operators as members of the respective departments appointed by the chiefs and responsible to them. Correct discipline could be maintained by the Superintendent if he were given the right of preferring charges against the operators before the Board of Fire and Police Commissioners. The respective chiefs should also be given the right to determine, among other things, the location of boxes, the records of calls to be kept and the running card of the department. Under the ordinance now in the hands of the Committees on Fire and Police Departments of the Council to consolidate the systems, the control of all employees through the power of appointment and removal is left in the hands of the respective chiefs as at present. This is open to the serious objection that the proposed Superintendent of Fire and Police Alarm Telegraphs could exercise no real control over his men, and friction between him and the respective departments might result.

Should it be the plan to create a Department or Division of Electricity and still retain for employees of the Fire and Police Alarm Telegraph their right to pension benefits, it would be necessary to secure changes in the law which would allow them to come under the pension provision.

II. If it should be decided that the work of this department should be limited to the supervision of Fire and Police Alarm signal and work similar in nature, it would be best to organize the department as a third branch of the Police and Fire group, leaving the appointment of the department head in the hands of the Board of Fire and Police Commissioners.

SUPERINTENDENT OF FIRE AND POLICE ALARM TELEGRAPH



He should be given an indefinite term of office subject to suspension and removal as the respective chiefs are at present. All employees should be selected by him under the rules of the Board, and be subject to dismissal by him as the members of the Fire and Police Departments are now subject to dismissal by the chiefs. Under this plan the employees could receive the pension benefits if that be desirable. The department would be placed in a group of allied departments working for the efficiency of protection for the public, and the Superintendent would have adequate control over the men in his employ. Under such a plan the necessity of giving the chiefs direct control of the operating force is not so great as under the other, for by this plan all employees are indirectly responsible to the same board to which the respective chiefs are responsible. But even under this plan the right of the chiefs to direct the operation of the systems whenever the efficiency of their department is concerned should be carefully safeguarded. Changes in the law to legalize the creation of a new department under the Board of Fire and Police Commissioners would probably be necessary.

Working out completely either of the plans outlined above is an undertaking which will require time and careful study. Many of the benefits of consolidating the systems can be secured for the present by combining the construction work and keeping the operation of the systems as it now is, leaving the ultimate organization of the department to be determined later.

C. PROPOSED ORGANIZATION.

The organization of the Fire and Police Alarm System should be made on the basis which will result in the greatest possible efficiency and economy. A definite scheme of departmental organization applicable to either plan I or II proposed above and determined after careful study of the situation and conversation with those most likely to know the amount and nature of the work required in the department, is submitted. The chart accompanying this report shows this organization in graphic form.

The work of the department falls naturally into five divisions. In the Division of the Conduit Construction the laying of the underground conduit is provided for. The division of Line Construction and Maintenance runs cables, erects poles, strings wires for new circuits and keeps in repair the lines already in operation. To the Division of Electrical Repairs is assigned the work of keeping the electrical apparatus and equipment in working condition. The Division of Operation takes charge of the switch boards of the system, and in the division of Records and Accounts the clerical work of the department is cared for.

Superintendent The Superintendent is the head of the department. He should be given complete charge of the construction, maintenance and repair of the lines, apparatus and equipment of the department. The relations of the Superintendent to the operating force have been discussed under the Form of Organization above. It is expected that the Superintendent will have expert knowledge of the signal systems, and will plan new extensions and improvements, besides closely supervising the work of his subordinates. A salary of \$3000 per year is suggested as being ample for the work in view of the salaries paid other city officials of like grade. This salary is generous when compared with the salaries paid to Superintendents of Fire and Police Alarm Systems in many other cities of the class of Milwaukee. In Minneapolis the Superintendent of the combined systems receives about \$2100, in Los Angeles, \$1800, in Cincinnati, \$2000.

Division of Records and Accounts Secretary, Salary \$1200. It is evident that sufficient clerical help must be given the Superintendent so that affairs of the department may be conducted properly. It is probable that when a detailed study of the records and clerical work of the department is made, a way can be found for the present force to handle the clerical work, but for the present it is recommended that a secretary for the department be engaged to keep the records, attend to the correspondence and meet callers in the office.

**Division of
Electrical
Repairs**

In the Division of Electrical Repairs the chief electrical repairer is given charge under the Superintendent. This man should be either a technical graduate or a man of good technical experience who can repair and keep in good condition all the apparatus of the department. He should take charge of the repairs to all apparatus and instruments, and should act as assistant to the Superintendent and stand ready to take his place when necessary. A salary of \$1500 per year is assigned to this position.

It is expected that the time of the chief electrical repairer will be occupied largely by repairs of apparatus in the repair shop of the division.

A lineman should be assigned to the work of repairing and adjusting instruments in the station houses and on the street. When the line work is heavy, this lineman could be transferred to the line crew.

Experience may show that the amount of repair work is too great to be satisfactorily handled by the chief repairer and one lineman. If such be the case, an assistant instrument repairer should be engaged at the same wages as a lineman.

**Division of
Line Con-
struction**

All new construction except conduit construction and all line repairs are made in the Division of line Construction and Maintenance, of which the chief lineman is head. He should be given charge under the supervision of the Superintendent of all the work. His salary is placed at \$1500 per year.

For the amount of work now done, a crew of five linemen and one chief should be ample to care for the lines of the department. When cables are to be run or other heavy work done, eight men may be needed. This crew can be obtained without calling for aid from either the fire or police department by taking the chief lineman, 5 regular linemen, 1 lineman detailed as assistant repairer, and 1 barnman, to assist the linemen. The wages of the linemen should be, as at present, \$1140 per year.

Under the new arrangement it will not be possible to have horses cared for by the two departments as is done at present. A laborer to care for the horses, paint boxes and posts, and assist in the general work of the line crew should be employed. He need not be an experienced lineman, for at the time when the line crew needs his help, there is much work in connection with the cable stringing which can be done by a common laborer. Wages of \$65 or \$70 a month should be sufficient for the barnman.

**Division of
Operation**

In the Division of Operation, as is now the case, the two chief operators at \$1102 per year have charge of the respective switch boards and operating forces. The chief operators should keep the records of calls over each system and other records. The chief operator of the Fire Department should have charge of the testing of the lines of both systems, if the plan to have the joint terminal board in the fire alarm operating room is carried out. Since it is not the intention to consolidate the switch boards no change in the operating force is contemplated, seven police alarm and six fire alarm operators at \$1000 each, being employed, as at present. A detailed study of the work of operation of the systems should be made at some future time.

**Division of
Conduit
Construction**

The men employed in the division of Conduit Construction are hired as needed for this work and are paid at current wages. The foreman should have charge of the construction crew, and keep their time. The laborers are of several classes, among them masons and common laborers.

The following table sets out in three columns the costs of the department, (1) as they now exist, (2) as they will exist if the pending ordinance pass and no change in the present organization be made, and (3) under the organization proposed above:

POSITION	SALARIES AND WAGES		
	^a Under present organization Police and Fire Depts.	^b Under ordinance proposed	^c Under organi- zation planned by Bureau of Economy and Efficiency
ADMINISTRATIVE AND OPERATING FORCE			
Superintendent	-----	\$ 3,600	\$ 3,000
Secretary	-----	1,200	1,200
Asst. Supt. Fire	\$ 2,400	-----	-----
Asst. Supt. Police	2,400	2,400	-----
Chief Operators (2)	2,208	2,208	2,208
Operators (13)	13,000	13,000	13,000
TOTAL	20,008	22,408	19,408
MAINTENANCE AND CON- STRUCTION FORCE			
(1) 2d Asst. Supt. Police	1,600	1,600	-----
Chief Elect. Repairer	1,200	1,200	1,500
Asst. Elect. Repairer	-----	-----	-----
If needed	-----	-----	1,140
Chief Lineman	1,500	1,500	1,500
(2) Linemen, 11 at \$1,140	12,540	-----	-----
" 9 at 1,140	-----	10,260	-----
" 6 at 1,140	-----	-----	6,840
Barnman	-----	-----	840
TOTAL	16,840	14,560	11,820
COMBINED TOTAL	36,848	36,968	31,228

(Note 1) The Second Assistant Superintendent of the Police Alarm Telegraph and the chief electrical repairer of the Fire Alarm System are both instrument repairers. Either of these men and a lineman detailed for this work, with perhaps an assistant repairer, could do the work satisfactorily. Unless there is a great deal of new work added to the department, it may not be necessary to engage the assistant.

(Note 2) The present authorized line force consists of four police linemen (including a chief lineman who has no additional salary) and five fire linemen, (in addition to the

chief lineman.) Of these nine positions two are vacant, but two patrolmen and two firemen are now detailed for line and similar work, making a total of eleven men now engaged in this work.

The table given above shows that the organization of the department as planned is not only efficient but is the most economical as well. The present payroll of the two systems totals \$36,848 per year, taking into account four additional men detailed for line and similar work and the two existing vacancies in the line force. Under the ordinance as proposed, the total pay roll of the combined departments is \$36,968, assuming that all authorized positions are filled. Under the plan of organization suggested above the total pay roll is \$31,228, including the wages of an assistant electrical repairer if he be needed. This is a saving of \$5620 over the present, and \$5740 over the proposed organization. If the cost of administration and operation only be considered the plan under the proposed ordinance represents an increase of \$2400 over present costs and \$3000 over the organization proposed in this report.

To secure correct organization of the department an ordinance should be passed to supplement the one creating the department. This ordinance should repeal all ordinances establishing positions in the Fire and Police Alarm Systems and designate the positions in the combined departments and establish the salaries of employees. Any change of salary, or regrading of present employees, must be done according to the provisions of the act creating the Board of Fire and Police Commissioners.

PROGRESS TOWARD CONSOLIDATION AS OF JUNE 10, 1911.

In accordance with a resolution of the Common Council of Nov. 7, 1910, His Honor, Mayor Seidel, conducted an investigation into the practicability of consolidating the Fire and Police Alarm Systems of the City. In a report to the Council on January 18, 1911, following his investigation, the Mayor recommended that some plan of combining the sys-

tems be adopted. An ordinance to effect the consolidation was introduced into the Council by Alderman Weiley on Feb 27th and referred to the Fire and Police committees. (For text of this ordinance see Appendix 1.) About March 10th, the Bureau of Economy and Efficiency began its study of the advisability and form of consolidation. The foregoing report following an informal report made to the Committees on Fire and Police Departments of the Council on March 25th was forwarded to the Mayor and several council committees. In these reports it was recommended that the systems be consolidated on the plans set out above. The recommendations of the bureau were not adopted at that time. The ordinance was passed on March 27th. The City Attorney has since held that portions of this ordinance were in violation of certain provisions of the City Charter. For this reason and because of the irregularities in procedure while the ordinance was pending, the ordinance has been abandoned.

In its report the bureau suggested that many of the benefits of consolidation could be secured by combining the construction work during the current year and leaving the ultimate organization of the department for future determination. (See page 8 above).

To carry out this idea, Alderman Weiley framed and introduced on April 10th, an ordinance to impose new duties upon the Assistant Superintendent of the Fire Alarm Telegraph. This ordinance was passed on June 5th. (See Appendix 2). On the same day that Alderman Weiley introduced this ordinance, he introduced another one (Appendix 3) which provides for the creation of the office of Superintendent of the Fire and Police Alarm Systems. This ordinance differs in several respects from the recommendations of the bureau. It is still in the hands of the Committees on Police and Fire Departments.

An amendment to substitute amendment No. 1 S to Bill No. 30 S (Appendix 4) is now pending in the State Legislature. This amendment is designed to legalize the consolidation of the Fire and Police alarm systems under a superintendent appointed by the Board of Police and Fire Commis-

sioners, following in general the suggestions of the bureau outlined under the Plan of Consolidation No. II. (See page 6 above). If this bill passes, it will be necessary that an ordinance be passed providing for a permanent form of organization of the department on these lines to carry the provisions of the bill into effect. The bill provides among other things, that employees in the alarm systems shall be subject to the same terms, rights and conditions as they now are. This clause will enable linemen, operators, and other employees of the alarm systems to continue under the provisions of the Policemen's and Firemen's Pension acts.

It is to be noted that these men are doing work which does not differ from that of many other city employees, and is not similar to the service rendered by men doing regular fire and police duty.

The work of the bureau has not progressed sufficiently to enable it at the present time, to make recommendations on the above question or on the pension system of city employees in general.

If consolidation be effected, the organization of the departmental force to realize the possible economies pointed out in the report of the bureau, (See pages 12-13 above) must be left to the head of the department and to the Council, which by ordinance, resolution, and budget appropriation can determine the working force of the department.

APPENDIX No. 1.

COPY OF ORDINANCE
PASSED BY THE COUNCIL MARCH 27, 1911
(DECLARED ILLEGAL)

Section 1. There shall be and is hereby created the office of Superintendent of the Fire and Police Alarm Systems of the City of Milwaukee, and such Superintendent shall have charge over all members of the Fire and Police Alarm systems. He shall have entire control and management of the Fire and Police Alarm systems and all records, apparatus, instruments, wires, cables, batteries, telephones and signal stations whatsoever belonging to any part of the system to be operated in the City of Milwaukee and shall see that the same are at all times kept in proper working order, and he shall from time to time make such rules and regulations as he may deem most beneficial and expedient for the successful operation thereof.

Sec. 2. The Superintendent of the Fire and Police Alarm systems shall have power to make such minor alterations in the signal and telephone circuits as the necessities of the system may from time to time require and to provide for its efficient operation at all times; he shall from time to time as he shall deem advisable submit to the common council recommendations for extensions and major alterations in the system, and shall make no repair, alteration or extension, the cost of which shall exceed.....dollars, except by direction of the common council.

Sec. 3. The Superintendent of the Fire and Police Alarm systems shall also have jurisdiction of such other matters as may from time to time be placed under his charge by the common council.

Sec. 4. The Assistant Superintendent of the Fire Alarm Telegraph, in addition to his present duties, shall perform the duties prescribed in this ordinance and required of the Superintendent of the Fire and Police Alarm systems.

Sec. 5. The salary of said Superintendent shall be and is hereby fixed at per month, and the salary of such Superintendent shall be paid in the same manner as other city officials are paid. "Such salary shall be in full payment for all services rendered."

Sec. 6. The Superintendent of Fire and Police Alarm systems shall appoint one secretary of the Fire and Police Alarm systems, subject to confirmation by the common council, who shall perform such duties as the Superintendent may prescribe.

Sec. 7. The salary of such secretary shall be.....
.....per month, and shall be paid in the same manner as other city officials are paid.

Sec. 8. Said Superintendent shall have charge of and control over all employees of the fire and police alarm systems, and may engage such help as he shall from time to time deem necessary.

Sec. 9. Said Superintendent shall keep a full and complete record of all transactions in his department and of all receipts and expenditures of money; he shall make an annual report to the common council at its first meeting in..... of each year, and shall refer to the Mayor upon any matters concerning his department whenever so requested by the mayor.

Sec. 10. Said Superintendent shall give a bond to the City of Milwaukee in the penal sum of..... dollars, conditioned upon the faithful performance of the duties of his office, to be approved by the city comptroller as to sufficiency of the sureties and by the city attorney as to form and execution.

Sec. 11. All ordinances or parts of ordinances contravening the provisions of this ordinance are hereby repealed.

Sec. 12. This ordinance shall take effect and be in force from and after its passage and publication.

APPENDIX No. 2.

**COPY OF ORDINANCE
PASSED BY THE COUNCIL JUNE 5, 1911**

AN ORDINANCE imposing additional duties upon the assistant superintendent of the fire alarm telegraph.

The Common Council of the City of Milwaukee do ordain as follows:

Section 1. The duties of the Superintendent of the Police Alarm Telegraph and of the Superintendent of the Fire Alarm Telegraph, in so far as the same relate to the construction, maintenance and repair of the fire and police alarm and telegraph systems, are hereby imposed upon the assistant superintendent of the fire alarm telegraph, and such assistant superintendent shall have entire control and management of the construction, maintenance and repair work of the fire and police alarm and telegraph systems, and of all the records, apparatus, instruments, wires, cables, batteries, telephones and signal stations whatsoever connected with or relating to such construction, maintenance and repair work in the City of Milwaukee, and shall see that the same are at all times kept in proper working order.

Sec. 2. The said Assistant Superintendent shall have power to make such minor alterations in the signal and telephone circuits as the necessities of the system may from time to time require; he shall from time to time, as he shall deem advisable, submit to the Common Council recommendations for extensions and major alterations in the systems, and shall make no repair, alteration or extension, the cost of which shall exceed two hundred (\$200.) dollars, except by direction of the Common Council.

Sec. 3. The Secretary to the said Assistant Superintendent shall be appointed by the Chief of the Fire Department in accordance with the provisions of section 9 of chapter 15 of the Charter of the City of Milwaukee, and he shall perform such duties as the said Assistant Superintendent may prescribe.

Sec. 4. The salary of such Secretary shall be:

\$1,200.00 for the first year of service.

\$1,300.00 for the second year of service.

\$1,500.00 after a continuous service of five years, and shall be paid in equal monthly installments in the same manner as other city officials are paid.

Sec. 5. Said Assistant Superintendent shall have charge of and control over all employees of the Fire and Police Alarm and Telegraph systems engaged in the construction, maintenance and repair work of the same.

Sec. 6. Said Assistant Superintendent shall keep a full and complete report of all transactions in his department and of all receipts and expenditures of money; all work done and expenses incurred separately for the purposes of the Police Alarm and Telegraph system shall be charged to the Police Department fund; and all work done and expenses incurred for the purposes of the Fire Alarm and Telegraph system separately, shall be charged to the Fire Department fund; all work done and expenses incurred jointly for the Fire and Police Alarm and Telegraph systems shall be charged one-half against each such fund. The Assistant Superintendent shall make a report at the end of each calendar month to the secretary of the Fire Department and to the secretary of the Police Department, showing in detail all receipts and disbursements and expense incurred during the current month; he shall make an annual report to the Common Council at its second meeting in January of each year, and shall report to the Mayor upon any matters concerning his department whenever so requested by the Mayor.

Sec. 7. Said Assistant Superintendent shall give a bond to the City of Milwaukee in the penal sum of five thousand (\$5,000.00) dollars, conditioned for the faithful performance of the duties of his office, to be approved by the City Comptroller as to sufficiency of sureties and by the City Attorney as to form and execution.

Sec. 8. All ordinances or parts of ordinances contravening the provisions of this ordinance are hereby repealed.

Sec. 9. This ordinance shall take effect and be in force from and after its passage and publication.

APPENDIX No. 3.

COPY OF ORDINANCE
INTRODUCED IN THE COUNCIL APRIL 10, 1911
(IN COMMITTEE)

AN ORDINANCE to create the office of superintendent of the Fire and Police Alarm systems.

The Common Council of the City of Milwaukee do ordain as follows:

Section. 1. There shall be and is hereby created the office of Superintendent of the Fire and Police Alarm systems of the City of Milwaukee, and such Superintendent shall have entire control and management of the construction, maintenance and repair work of the Fire and Police Alarm and Telegraph systems, and all records, apparatus, instruments, wires, cables, batteries, telephones and signal stations whatsoever connected with or relating to such construction, maintenance and repair work in the City of Milwaukee, and he shall see that the same are at all times kept in proper working order.

Sec. 2. The said Superintendent shall have power to make such minor alterations in the signal and telephone circuits as the necessities of the systems may from time to time require; he shall from time to time, as he shall deem advisable, submit to the Common Council recommendations for extensions and major alterations in the systems, and shall make no repair, alteration or extension, the cost of which shall exceed two hundred dollars (\$200), except by direction of the Common Council.

Sec. 3. The Superintendent of the Fire and Police Alarm systems shall also have jurisdiction of such other matters as may from time to time be placed in his charge by the Common Council.

Sec. 4. Said Superintendent shall be appointed by the Chief Engineer of the Fire Department in accordance with the provisions of section 9 of chapter 15 of the charter of the City of Milwaukee.

Sec. 5. The salary of said Superintendent shall be and is hereby fixed at three thousand six hundred dollars (\$3600) per annum, payable in equal monthly installments in the same manner as other city officials are paid.

Sec. 6. A Secretary of the Fire and Police Alarm systems shall be appointed in accordance with the provisions of section 9 of chapter 15 of the charter of the City of Milwaukee by the Chief of the Fire Department, and shall perform such duties as the Superintendent may prescribe.

Sec. 7. The salary of such Secretary shall be..... dollars per annum, and shall be paid in equal monthly installments in the same manner as other officials are paid.

Sec. 8. Said Superintendent shall have charge of and control over all employees of the Fire and Police Alarm and Telegraph systems engaged in the construction, maintenance and repair thereof, and such members shall be appointed and removed according to the provisions of section 9 of chapter 15 of the charter of the City of Milwaukee.

Sec. 9. Said Superintendent shall keep a full and complete report of all transactions in his department and of all receipts and expenditures of money; all work done and expenses incurred separately for the purposes of the Police Alarm and Telegraph system shall be charged to the Police Department fund; and all work done and expenses incurred for the purposes of the Fire Alarm and Telegraph system separately shall be charged to the Fire Department fund; all work done and expense incurred jointly for Fire and Police Alarm and Telegraph systems shall be charged one-half against each such fund. The Superintendent shall make a report at the end of each calendar month to the Secretary of the Fire Department and to the Secretary of the Police Department, showing in detail all receipts and disbursements and expense incurred during the current month; he shall make an annual report to the Common Council at its second meeting in January of each year, and shall report to the Mayor upon any matters concerning his department whenever so requested by the Mayor.

Sec. 10. Said Superintendent shall give a bond to the City of Milwaukee in the penal sum of five thousand dollars (\$5000), conditioned for the faithful performance of the duties of his office, to be approved by the City Comptroller as to sufficiency of sureties and by the City Attorney as to form and execution.

Sec. 11. All ordinances or parts of ordinances contravening the provisions of this ordinance are hereby repealed.

Sec. 12. This ordinance shall take effect and be in force from and after the 1st day of August, A. D. 1911.

APPENDIX No. 4.

SUBSTANCE OF AMENDMENT
TO SUBSTITUTE AMENDMENT No. 1 S. TO BILL No. 30 S.
NOW PENDING IN THE WISCONSIN STATE
LEGISLATURE

To amend said bill by adding at the end of Section 23 thereof, the following:

“Excepting that all apparatus and its mechanical operation necessitating the use of telegraph or telephone wire or other wire for signaling purposes with consequent use of the public highways together with such wire and all appurtenances to such apparatus and such wire together with the constructional work therefor may be placed under the management and control of a separate department.”

Appointment of superintendent of the department to be made by Board of Fire and Police Commissioners.

Appointments in this department subject to the approval of the Board of Fire and Police Commissioners may be made by the head of this department.

Employees in this service subject to the same terms, rights and conditions as at present and subject to removal under the same conditions as herein provided for firemen and policemen.

Salary of Superintendent of this department, and assistants, to be fixed by Common Council.

Supplies and apparatus for improving, extending, repairing and maintaining this department and its apparatus, and mechanical and electrical operation, supplied in the same manner as for any other service under city control.

